

AMENDMENTS TO THE SPECIFICATION

(paragraph 0015 currently amended)

More preferably, at least the part of the probe that is encased in the glass material to form a metal to glass seal comprises a nickel alloy, more preferably being typically 70% nickel. More preferably, the alloy is made precipitation hardenable by the additions of aluminium and/or titanium thereto. Suitable alloys include those sold under the trade names Inconel X-750 INCONEL® X-750™, Inconel 600-INCONEL® 600™ or Kovar KOVAR®. More preferably, an Inconel X-750 INCONEL® X-750™ alloy is used. The glass that is sealed around this part of the probe is preferably a borosilicate glass. It is preferable for the probe to be sealed to the glass by such a matched seal.

(paragraph 0016, currently amended)

The glass material may then be sealed within the mounting. The mounting is preferably comprised of a nickel alloy, such as Inconel X-750 INCONEL® X-750™. The mounting preferably incorporates a gasket face seal fitting, such as a VCR profile at a connecting face and internal faces to suit the fit of an electrical connector and the glass-to-metal hermetic seal. The gasket is preferably one which is deformed on tightening to provide a secure metal-metal seal. The electrical connector is preferably surrounded by a layer of insulating material, such as a polyether ether ketone (PEEK).

(paragraph 0030, currently amended)

Referring to FIGS. 1 and 2 of the accompanying drawings, an apparatus for continuously monitoring the level of a metalorganic compound in a vessel, such as a bubbler, according to a first embodiment of the present invention is illustrated. The bubbler 2 has an inlet pipe 4 leading into a dip pipe 6 and an outlet pipe 8. A metal probe 10 is provided which extends through the centre and length of the bubbler vessel. The upper end of the probe is encapsulated in a layer of glass 12 and hermetically sealed to the top of the bubbler to ensure that the pressure within the bubbler is maintained and that the contents of the bubbler are isolated from air. The lower end of the probe that dips into the precursor contained within the vessel is coated with an inert, heat resistant material, such as polytetrafluoroethylene (PTFE) or other elastomeric

material. The ~~top of the probe~~ top 14 of the probe is connected to an electronic control unit which includes a power source and communicates with a monitoring device that displays a reading of the level of the liquid in the bubbler.